What is claimed is:

1. A gas drier comprising:

an igniter, connected to a first terminal providing a power signal with respect to a neutral terminal, for initiating a flame;

a normally closed flame detection switch, connected between said igniter and the neutral terminal to receive the power signal via said igniter, for detecting a presence of the initiated flame by opening; and

a sustaining relay for providing an alternative path of conduction with respect to said flame detection switch.

2. A gas drier comprising:

an igniter having a first terminal connected to a power supply terminal to ignite a gas;

a flame detection switch having a first terminal connected to a second terminal of said igniter, to maintain a closed state at a normal operating state time, said flame detection switch being a normally closed type switch that is opened when a flame of the igniter is detected;

a thermostat switch having one terminal connected to a second terminal of said flame detection switch, to maintain a closed state at a normal operating state, said thermostat switch being a normally closed type switch that is opened by a detection of a state of overheating;

a first valve coil having one end grounded;

a second valve coil having one end connected to the first terminal of said flame detection switch;

a sustaining relay comprising:

an operating coil having one end connected to the other end of said first valve

coil and the other end grounded; and

a pair of contacts respectively connected across said flame detection switch; and

a rectifier bridge having an output terminal tied in common to said first and second valve coils and the operating coil of said sustaining relay and a pair of input terminals respectively connected to said sustaining relay and the first terminal of said flame detection switch.

3. The apparatus as claimed in claim 2, wherein the contacts of the sustaining relay maintain an open state at the normal operating state and are switched to a closed state when power from said rectifier bridge is applied to the operating coil.